

<110> TAKARA SHUZO CO., LTD.

<110> National Cancer Center

<110> The Organization for Pharmaceutical Safety and Research

<120> Genomic DNA library

<130> 01-066US

<160> 69

&lt;170&gt; PatentIn Ver. 2.1

<210> 1

<211> 22

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<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence for ER1 primer

<400> 1

ggaattcggc ggccgcggat cc

22

<210> 2

&lt;211&gt; 21

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<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 2

caactctaatt tagatgaccc a

21

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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gagagtatga attctgtact t

21

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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cagacttatt gtgtagaaga

20

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 5

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ctcctgaaga aaattcaaca

20

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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actccagatg gattttcttg

20

<210> 7

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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ggctggcttt ttgctttac

20

<210> 8

<211> 23

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 8

gtcgtaatTT tgTTTctaaa ctc

23

<210> 9

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 9

tgaaggactc ggatttcacg c

21

<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 10

atttgaatac tacagtgtta ccc

23

<210> 11

<211> 24

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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Sequence

cttgatttct aatttggcat aagg

24

<210> 12

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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gttactgcat acacattgtg ac

22

<210> 13

<211> 23

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 13

acttctatct ttttcagaac gag

23

<210> 14

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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6/2 4

atttgaatac tacagtgtta ccc

23

<210> 15

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying APC gene

<400> 15

gtttctcttc attatatttt atgc ta

26

<210> 16

<211> 23

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying APC gene

<400> 16

aagcctacca attatagtga acg

23

<210> 17

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<223> Description of Artificial Sequence: a sequence of a primer for  
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20

<210> 18

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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ctgccatgcc aacaaagtca

20

<210> 19

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21

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<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin D1 gene

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atgagcaagc tgcccaggga

20

<210> 21

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying CAB1 gene

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20

<210> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin E1 gene

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20

<210> 23

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin E1 gene

<400> 23



9/24

tcagatgtcc acgtcccgc

20

<210> 24

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<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin E1 gene

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gtgctcaccg gccccggtgc

20

<210> 25

<211> 20

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin E1 gene

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ggagagggct gccccctgcc

20

<210> 26

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying p16 gene

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<210> 27

<211> 20

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying p16 gene

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tcaatcgggg atgtctgagg

20

<210> 28

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 28

acctgccaca gtagatgctc ag

22

<210> 29

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 29

actgcacata catccctgaa cc

22

<210> 30

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 30

ggagagagca gctttcacta ac

22

<210> 31

<211> 23

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 31

ccataccacg acatttgaca gag

23

<210> 32

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 32

taggtgtggt ttctgcatag gg

22

<210> 33

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 33

gtccgcctat cattacatgt ttcc

24

<210> 34

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 34

aacaccactg agaagcgtgc ag

22

<210> 35

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 35

22

&lt;211&gt; 23

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23

&lt;211&gt; 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

22

<211> 24

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 38

24

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

**<400> 39**

tcttcaaggt gggaaactgcg tc

22

<210> 40

**<211> 23**

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**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 40

ctcgttactg gaagttagca ctc

23

<210> 41

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 41

aaccacagga aagcctgcag tg

22

<210> 42

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 42

ttggtctttt ctgtccctcc catc

24

<210> 43

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 43

ttcacaacgc cttacgctc tc

22

<210> 44

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 44

1 5/2 4

aggacacgtg tagaacgtgc ag

22

<210> 45

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 45

tcctaattctc gtgatctgcc cg

22

<210> 46

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 46

agcctctgat tctgtcacca gg

22

<210> 47

<211> 23

<212> DNA

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<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 47

1 6 / 2 4



23

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

22

&lt;211&gt; 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

22

**<211> 22**

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 50

ccaaagtgc t aggattacag gg

22

<210> 51

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying BRCA1 gene

<400> 51

cctgtgtgaa agtatctagc actg

24

<210> 52

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying BRCA1 gene

<400> 52

cagaaatcat caggtggtga acag

24

<210> 53

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying BRCA1 gene

<400> 53

1 8/2 4



20/24

attgcgccat cacactctag cc

22

<210> 57

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 57

acccttgcat agccagaagt cc

22

<210> 58

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 58

agcatggctt tcttcttcct gtgc

24

<210> 59

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 59

20/24

cagacacaga aactctctgc tatg

24

<210> 60

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 60

caccatatgc tgcctcataa cc

22

<210> 61

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 61

aacatggtgg aaaggaccac gc

22

<210> 62

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying p53 gene

<400> 62

atcctggcta acggtgaaac cc

22

<210> 63

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying p53 gene

<400> 63

tgatgagagg tggatgggta gtag

24

<210> 64

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying CD59 gene

<400> 64

tctcacatgg aacgctttc

19

<210> 65

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying CD59 gene

<400> 65

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21

<211> 20

&lt;212&gt; DNA

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying topoisomerase I gene

<400> 66

ggaatttgtc agcgttctac

20

<210> 67

<211> 21

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying topoisomerase I gene

<400> 67

caatgcctgt aaaactaatg a

21

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying ATP dependent DNA helicase gene

<400> 68

2 4 / 2 4

ccctccctgt tcgtgtaccc

20

<210> 69

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying ATP dependent DNA helicase gene

<400> 69

agaccactct tcagcccgta a

21

307217 02750552